

Figure 1A

+

Figure 1B

4019505843 y

2788288333 x

531356654375687 a

11208072603116605406 result

Figure 1c

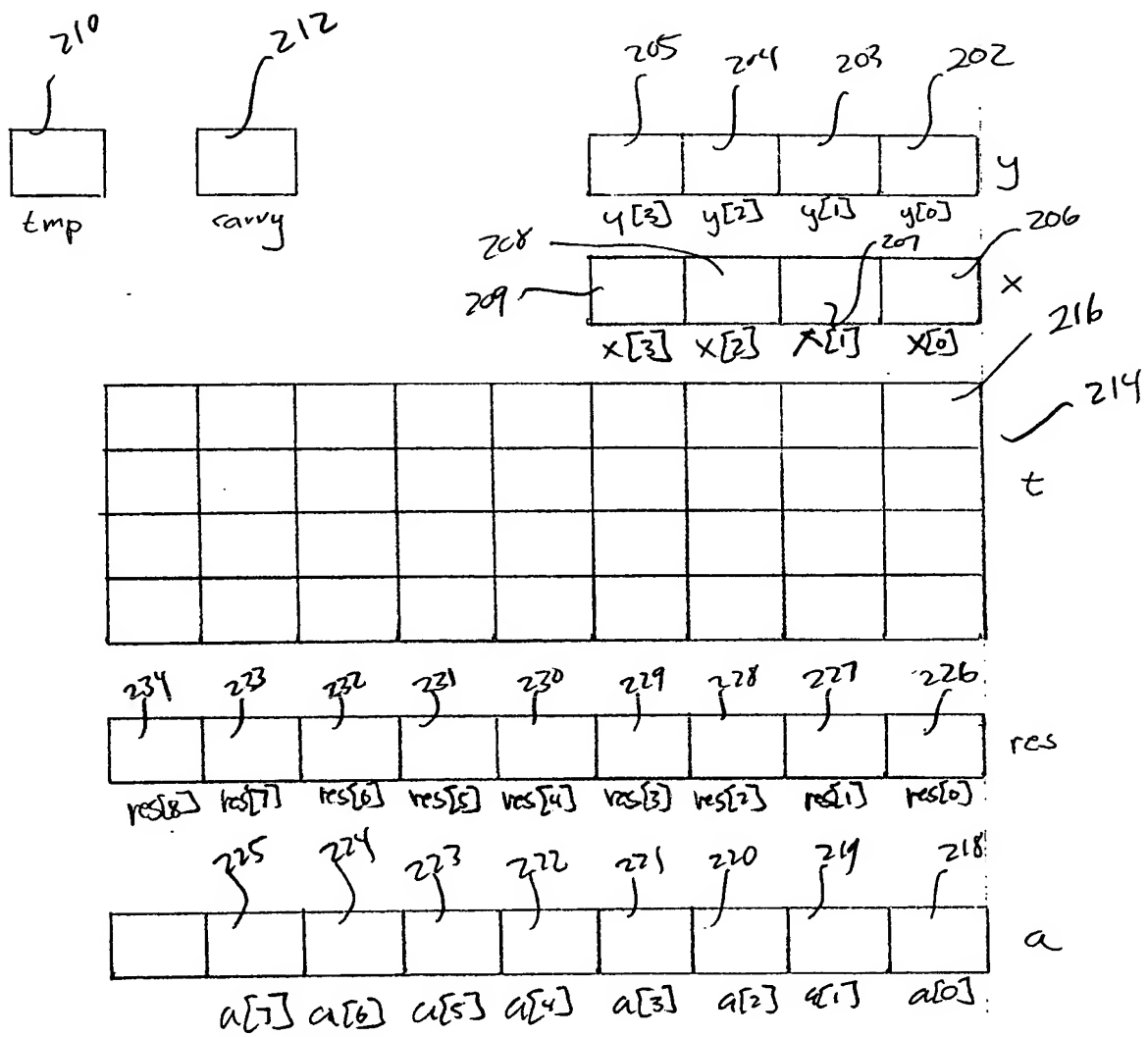


Figure 2A

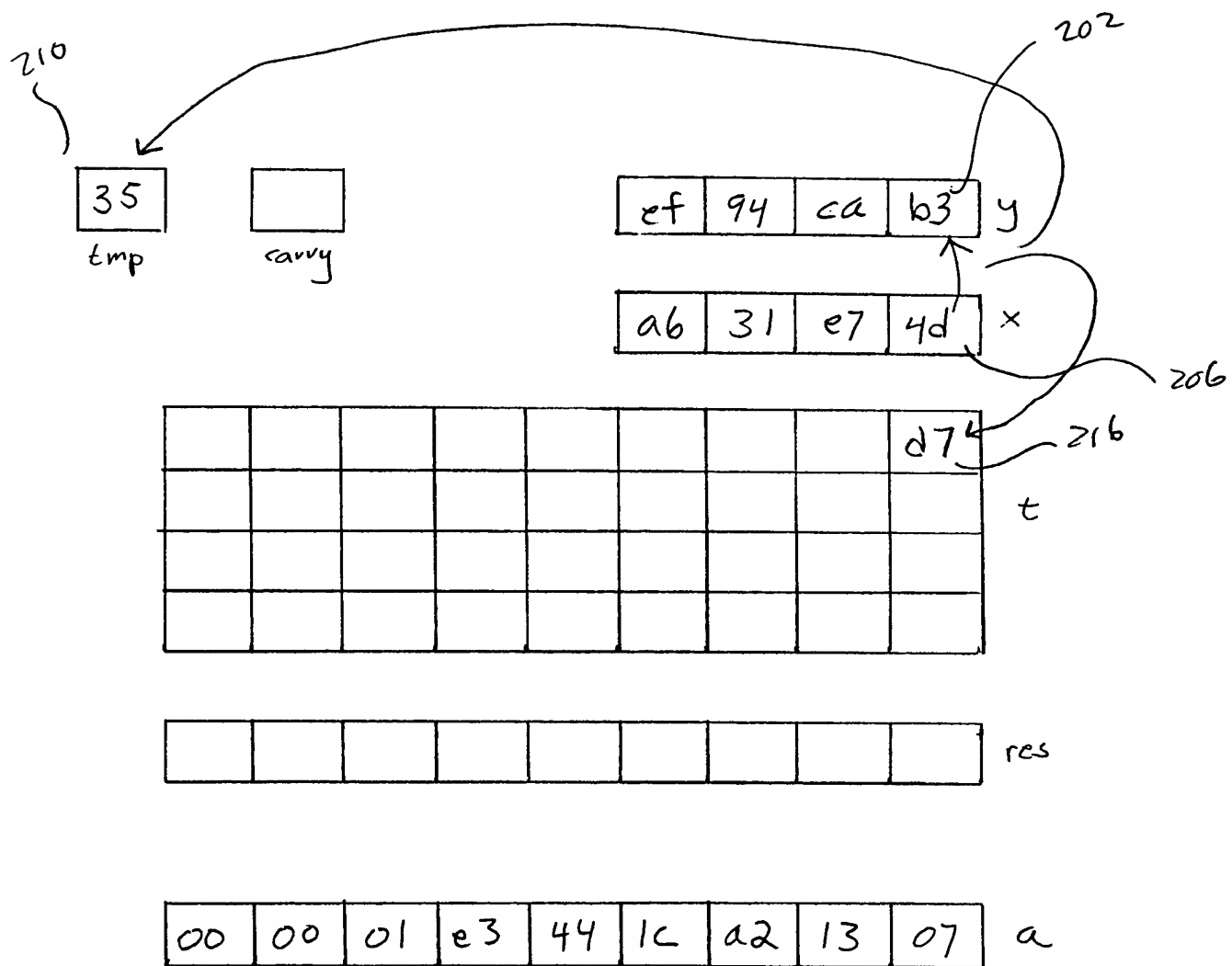


Figure 2B

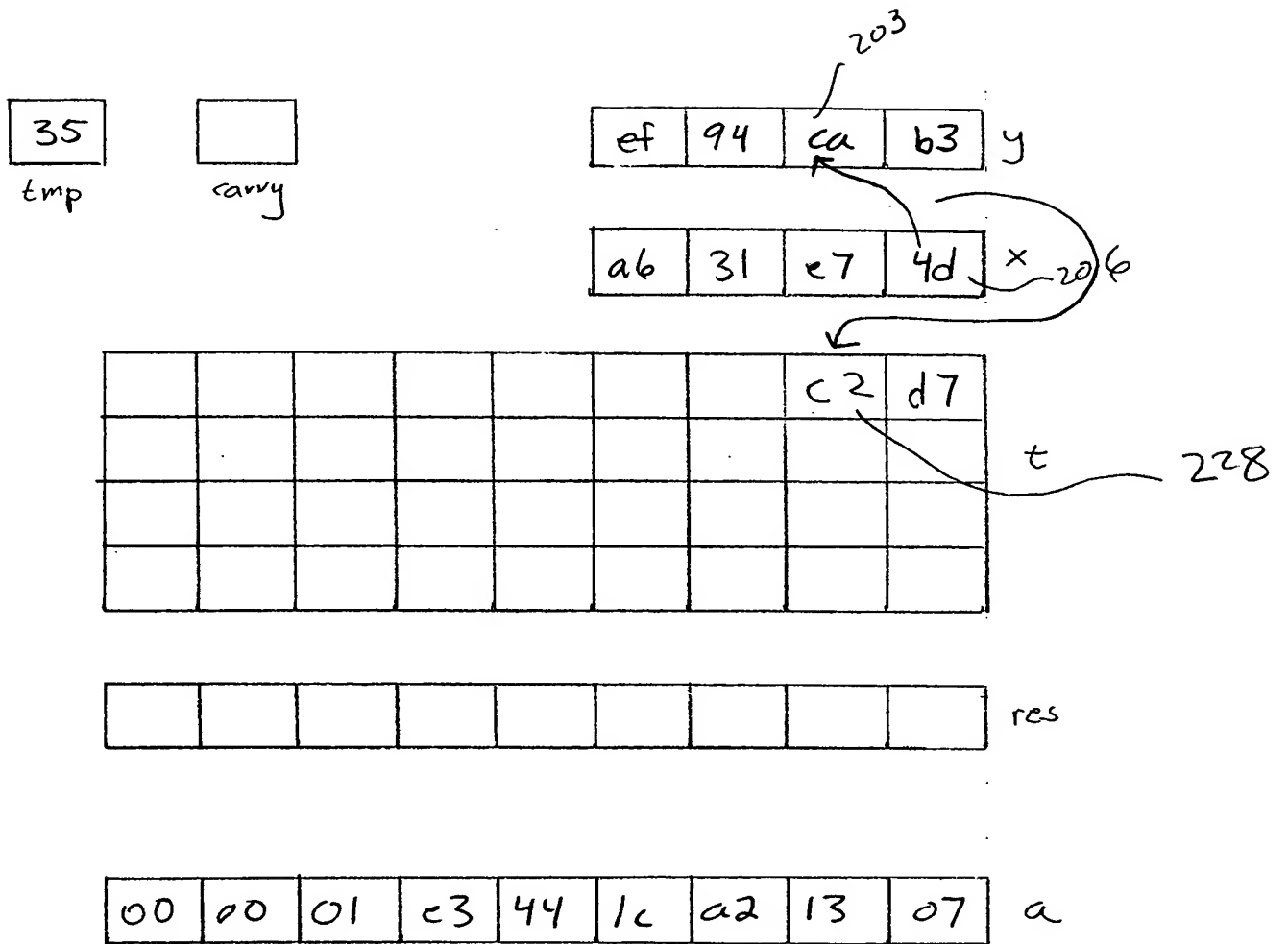


Figure 2c

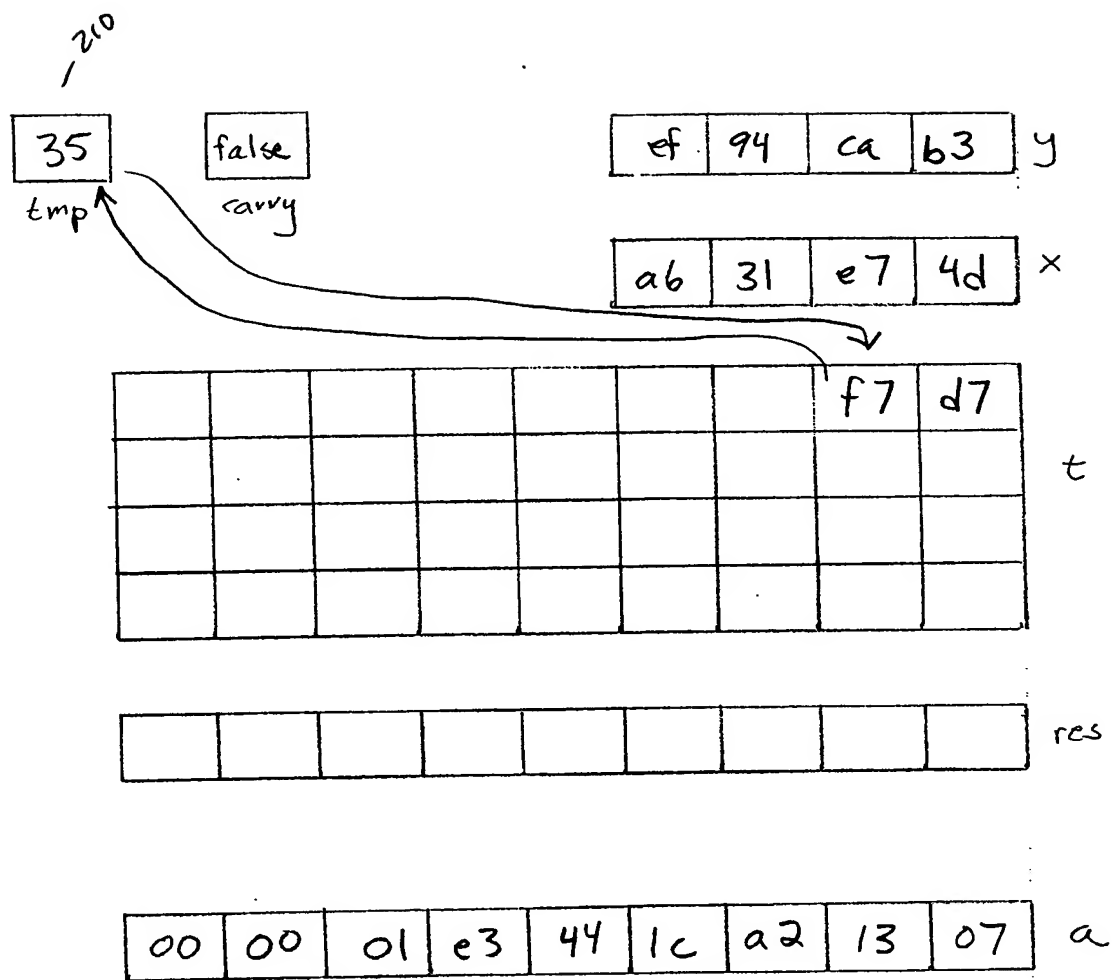


Figure 2D

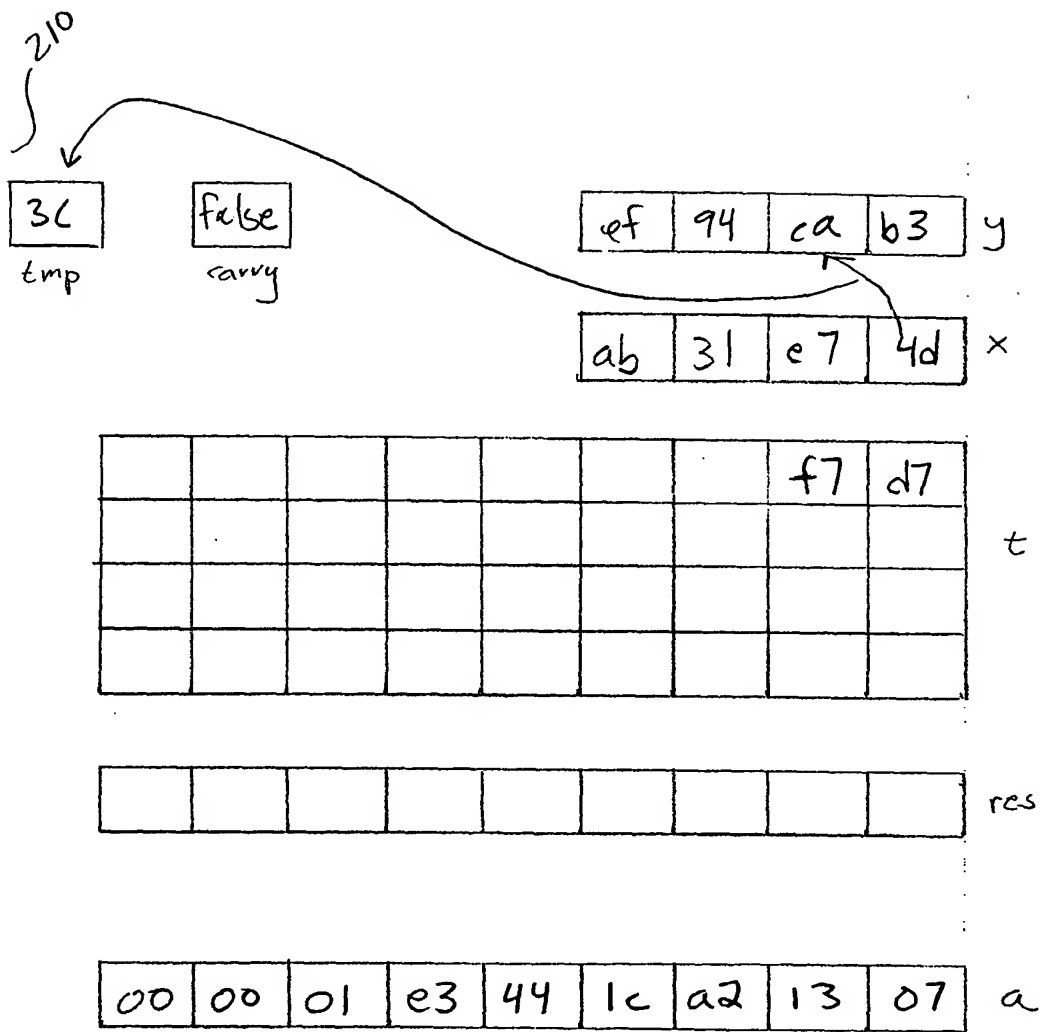


Figure 2E

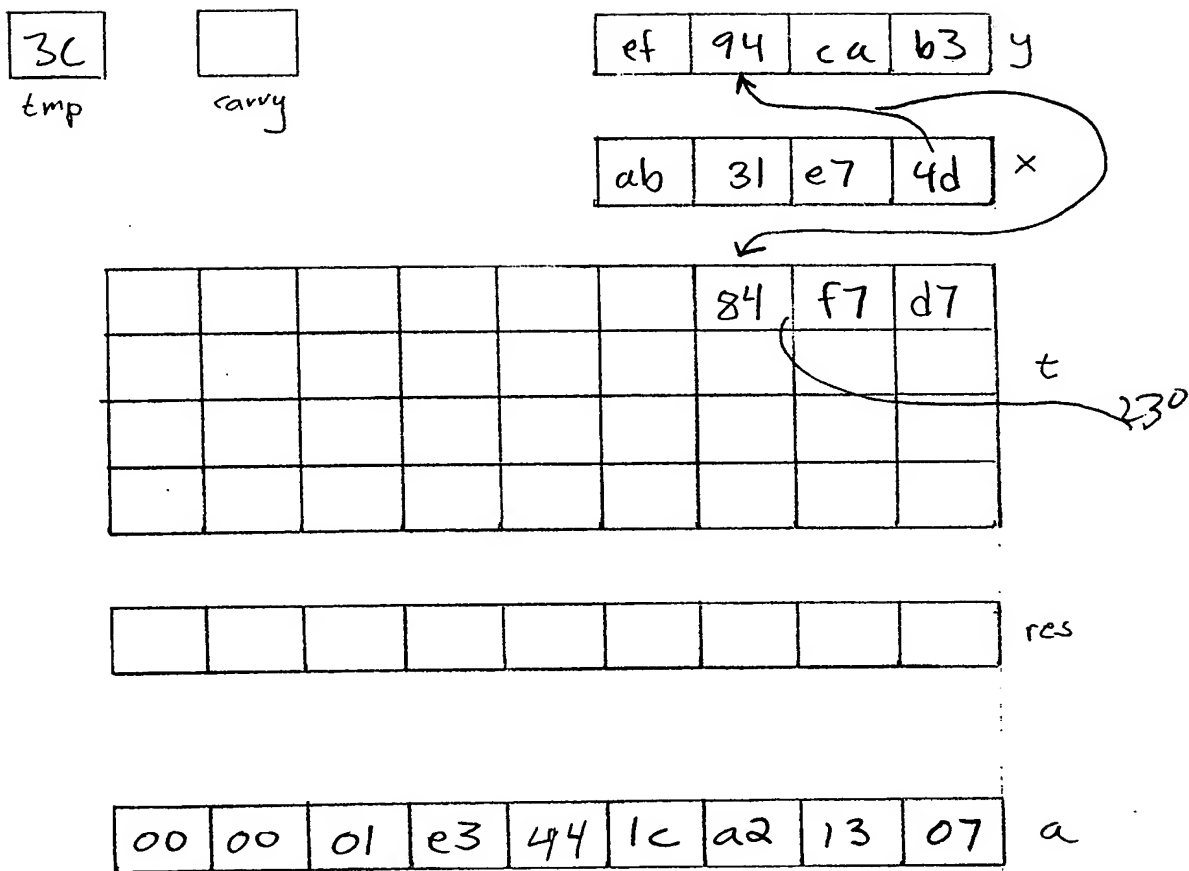


Figure 2F

2c

tmp

true

carry

ef	94	ca	b3
----	----	----	----

y

a6	31	e7	4d
----	----	----	----

x

				48	0f	c0	f7	d7

t

--	--	--	--	--	--	--	--	--

res

00	00	01	e3	44	1c	a2	13	07
----	----	----	----	----	----	----	----	----

a

Figure 26

85

tmp

01

carry

ef	94	ca	b3
----	----	----	----

y

a6	31	e7	4d
----	----	----	----

x

232 ~

				48	0f	c0	f7	d7
			d8	2f	42	e7	85	

t

--	--	--	--	--	--	--	--	--

res

00	00	01	e3	44	1c	a2	13	07
----	----	----	----	----	----	----	----	----

a

Figure 241

1c

tmp

false

carry

ef	94	ca	b3
----	----	----	----

 y

a6	31	e7	4d
----	----	----	----

 x

				48	0f	c0	f7	d7	t
			d8	2f	42	e7	85		
		2d	db	7a	cc	43			

									res
--	--	--	--	--	--	--	--	--	-----

00	00	01	e3	44	1c	a2	13	07	a
----	----	----	----	----	----	----	----	----	---

Figure 2I

5f
tmp

true
carry

ef 94 ca b3 y

ab 31 e7 4d x

234

				48	0f	c0	f7	d7	
			d8	2f	42	e7	85		t
		2d	db	7a	cc	43			
	9b	5a	7b	70	12				

									res
--	--	--	--	--	--	--	--	--	-----

00	00	01	e3	44	1c	a2	13	07	a
----	----	----	----	----	----	----	----	----	---

Figure 25

5f
tmp

true
carry

ef 94 ca b3 y

ab 31 e7 4d x

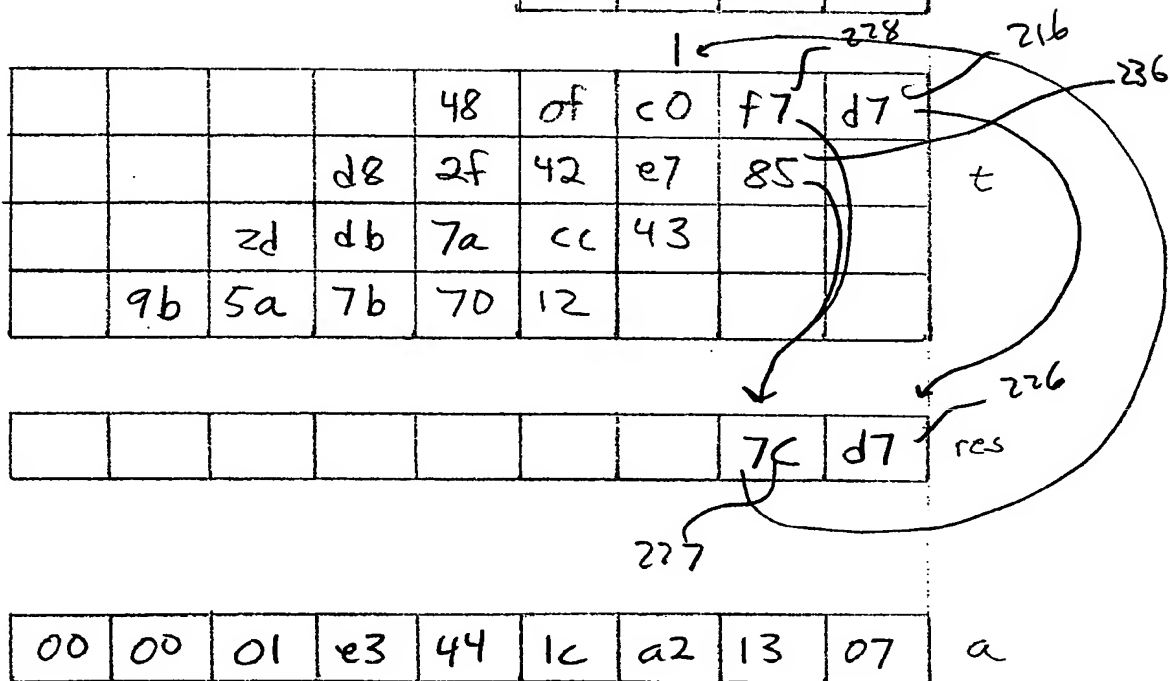


Figure 2K

5f

tmp

true

carry

ef	94	ca	b3
----	----	----	----

 y

a6	31	e7	4d
----	----	----	----

 x

				48	0f	c0	f7	d7	t
			d8	2f	42	e7	85		
		2d	db	7a	cc	43			
	9b	5a	7b	70	12				

	9b	89	2f	62	30	eb	7c	d7
--	----	----	----	----	----	----	----	----

 res

00	00	01	e3	44	1c	a2	13	07
----	----	----	----	----	----	----	----	----

 a

Figure 2L

5f
tmp

true
carry

ef 94 ca b3 y

a6 31 e7 4d x

				48	of	c0	f7	d7	
			d8	2f	42	e7	85		t
		2d	db	7a	cc	43			
	9b	5a	7b	70	12				

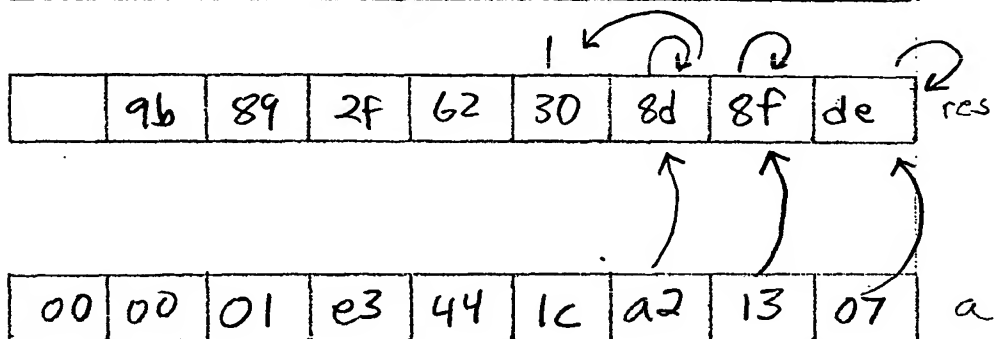


Figure 2M

5f
tmp

true
carry

ef 94 ca b3 y

ab 31 e7 4d x

				48	of	c0	f7	d7	
			d8	2f	42	e7	85		t
		2d	db	7a	cc	43			
	9b	5a	7b	70	12				

0 9b 8b 12 ab 4d 8d 8f de res

00 00 01 e3 44 1c a2 13 07 a

Figure 2N

--

tmp

--

carry

ef	94	ca	b3
----	----	----	----

 y

ab	31	e7	4d
----	----	----	----

 x

									}	t

--	--	--	--	--	--	--	--	--

 result

00	00	01	e3	44	1c	a2	13	07
----	----	----	----	----	----	----	----	----

 a

Figure 3A

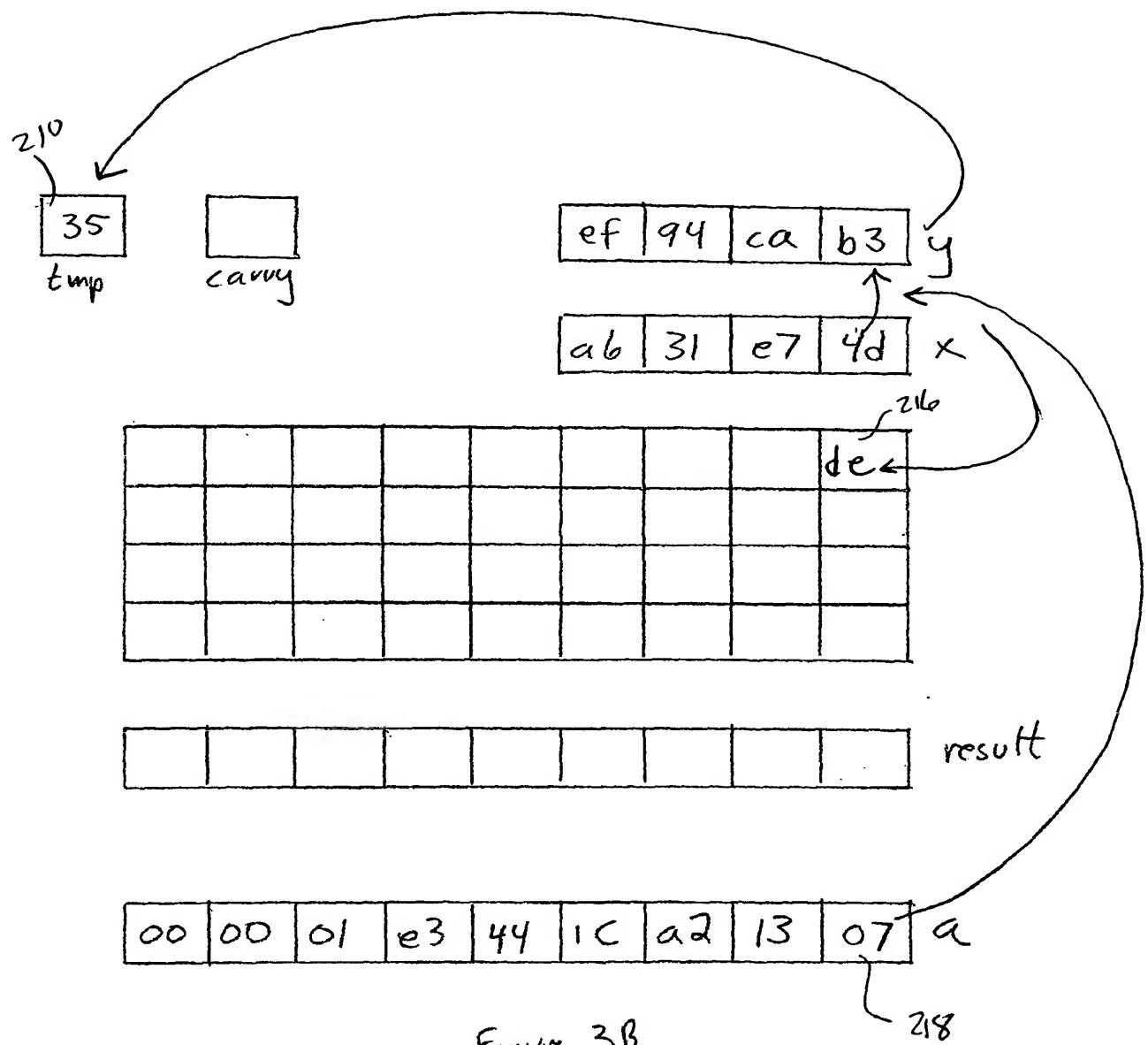


Figure 3B

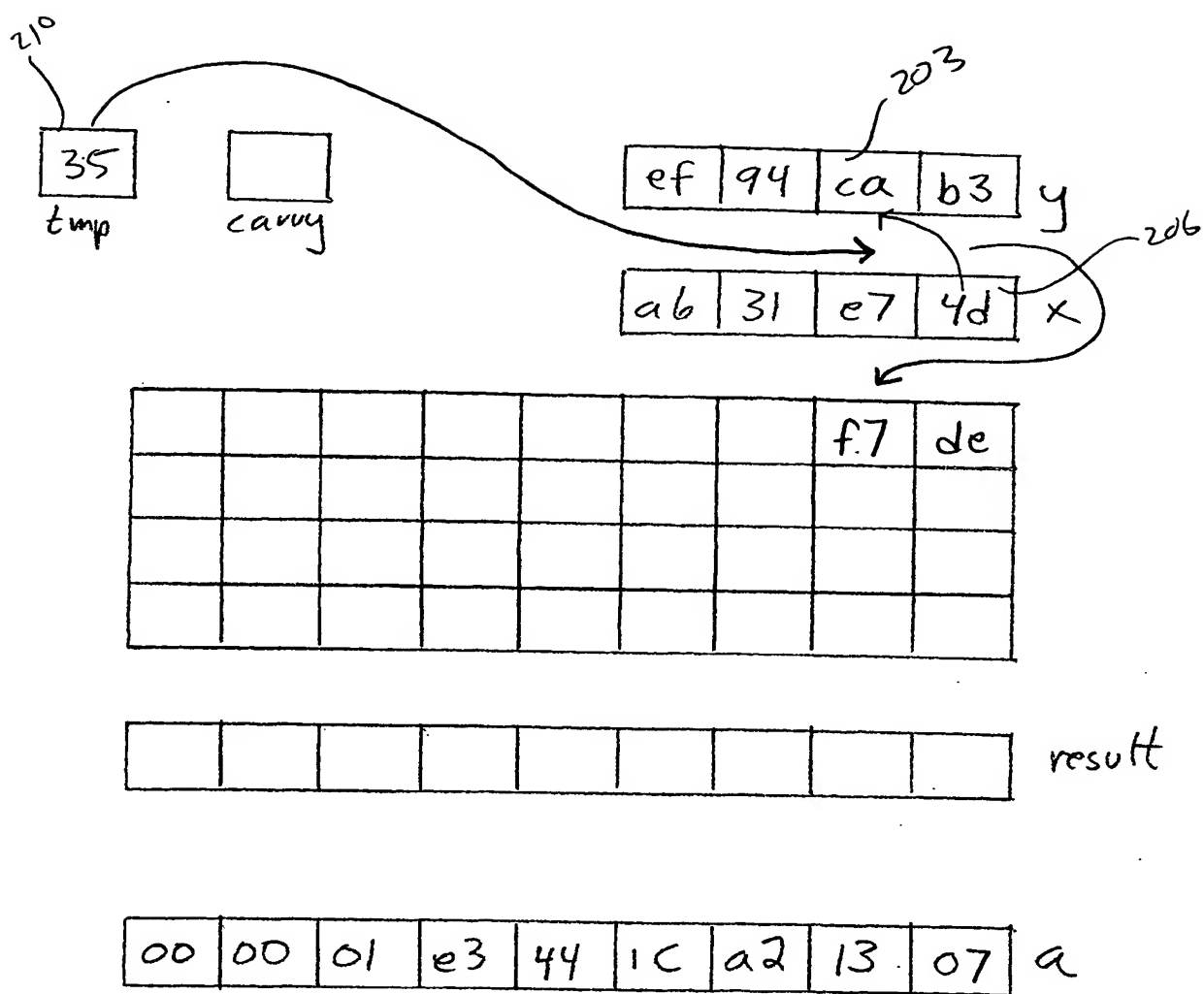
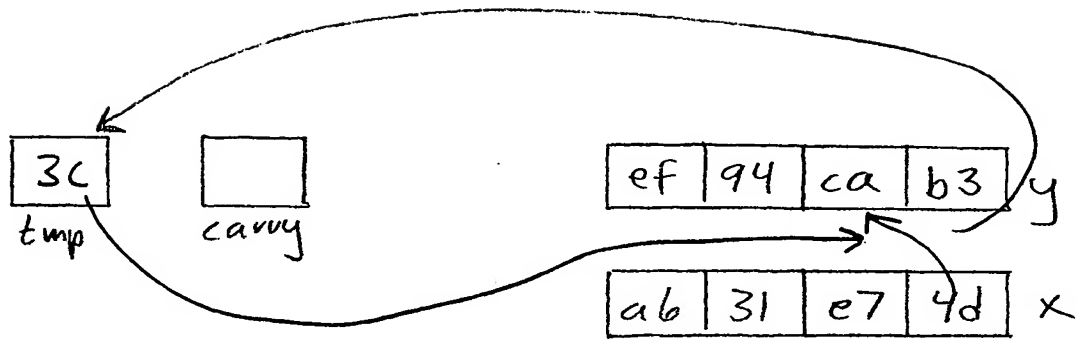


Figure 3C



							f7	de

--	--	--	--	--	--	--	--	--

result

00	00	01	e3	44	1c	a2	13	07	a
----	----	----	----	----	----	----	----	----	---

Figure 3D

2c
tmp

carry

ef 94 ca b3 y

ab 31 e7 4d x

				48	of	c0	f7	de

--	--	--	--	--	--	--	--	--

 result

00 00 01 e3 44 1c a2 13 07 a

Figure 3E

2c

tmp

--

carry

ef	94	ca	b3
----	----	----	----

y

a6	31	e7	4d
----	----	----	----

x

				8c	0f	c0	f7	de

--	--	--	--	--	--	--	--	--

result

00	00	01	e3	44	1c	a2	13	07
----	----	----	----	----	----	----	----	----

a

Figure 3F

86
tmp

carry

ef 94 ca b3 y
202

ab 31 e7 4d x
201

232

				8c	0f	c0	f7	de
		01	bb	2f	42	e7	98	

--	--	--	--	--	--	--	--	--

 result

00 00 01 e3 44 1c a2 13 07 a
219

203 Figure 36

1c
tmp

carry

ef 94 ca b3 y

ab 31 e7 4d x

				8c	af	c0	f7	de
		01	bb	2f	42	e7	98	
		2e	db	7a	cc	e5		

--	--	--	--	--	--	--	--	--

 result

00 00 01 e3 44 1c a2 13 07 a

Figure 3H

60
tmp

carry

ef 94 ca b3 y

ab 31 e7 4d x

				8c	of	c0	f7	de
		01	bb	2f	42	e7	98	
		2e	db	7a	cc	e5		
	9b	5a	7b	70	2e			

--	--	--	--	--	--	--	--	--

 result

00 00 01 e3 44 1c a2 13 07 a

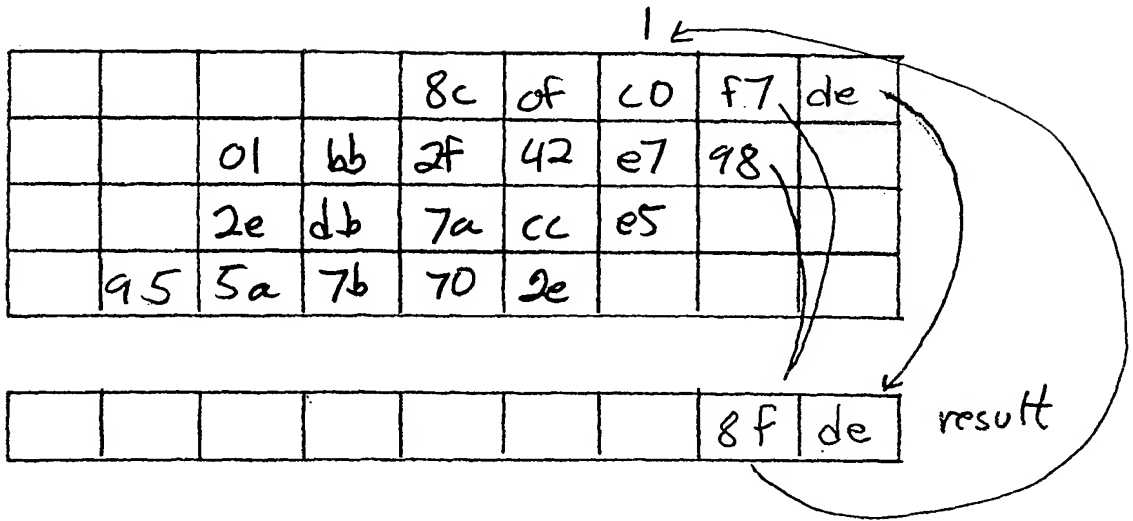
Figure 3I

60
tmp

carry

ef 94 ca b3 y

ab 31 e7 4d x



00 00 01 e3 44 1c a2 13 07 a

Figure 3J

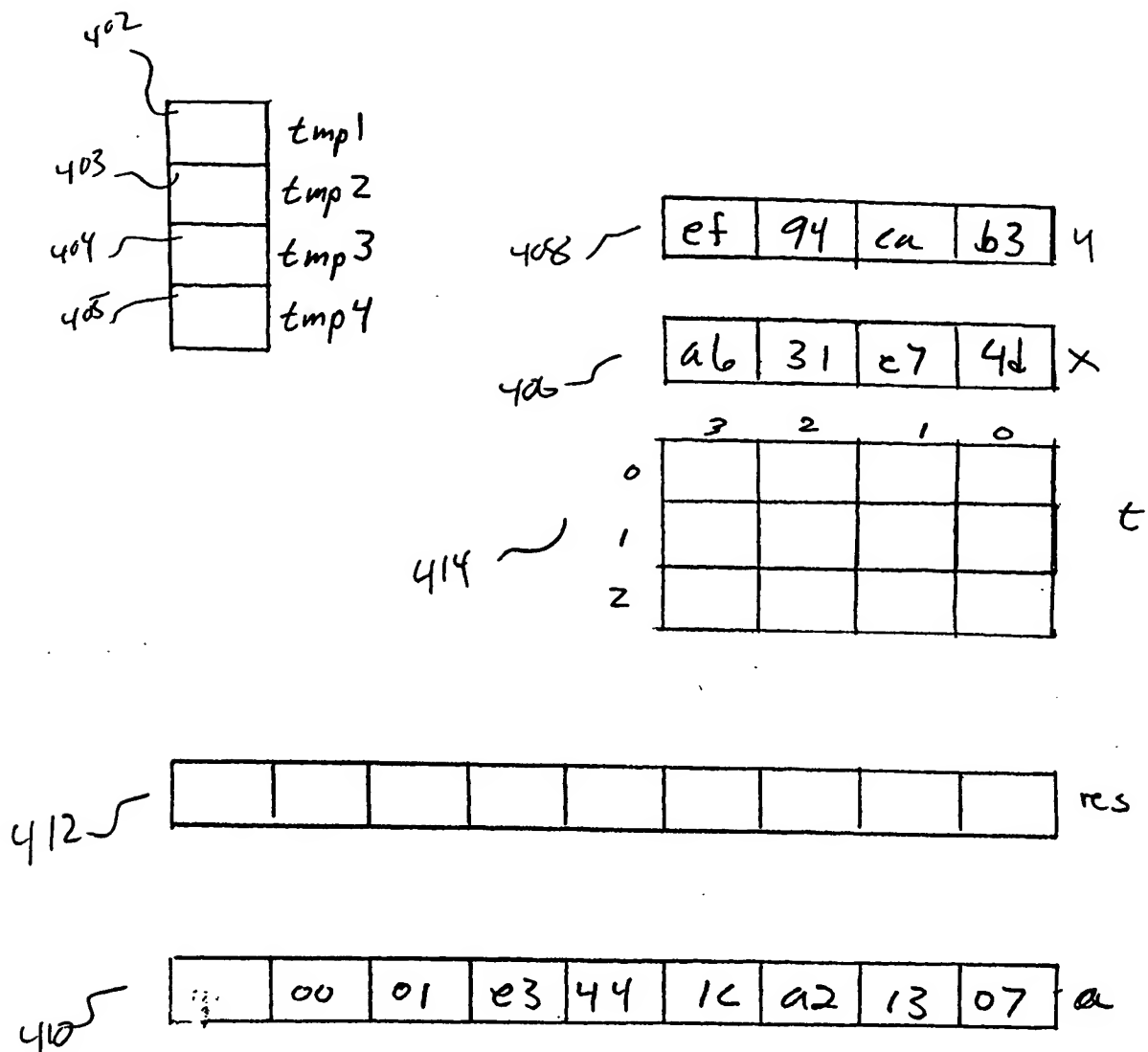


Figure 4A

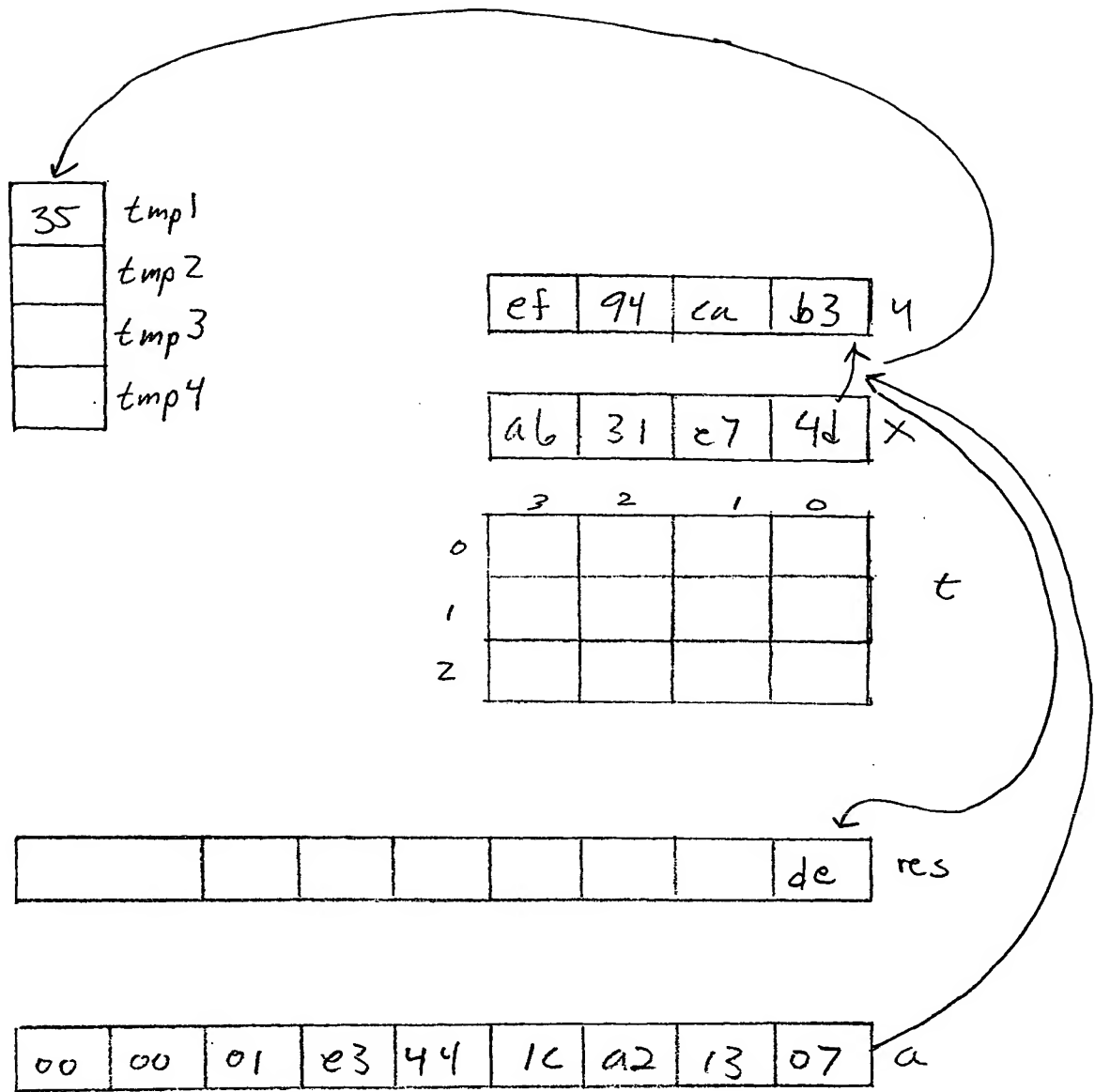


Figure 4B

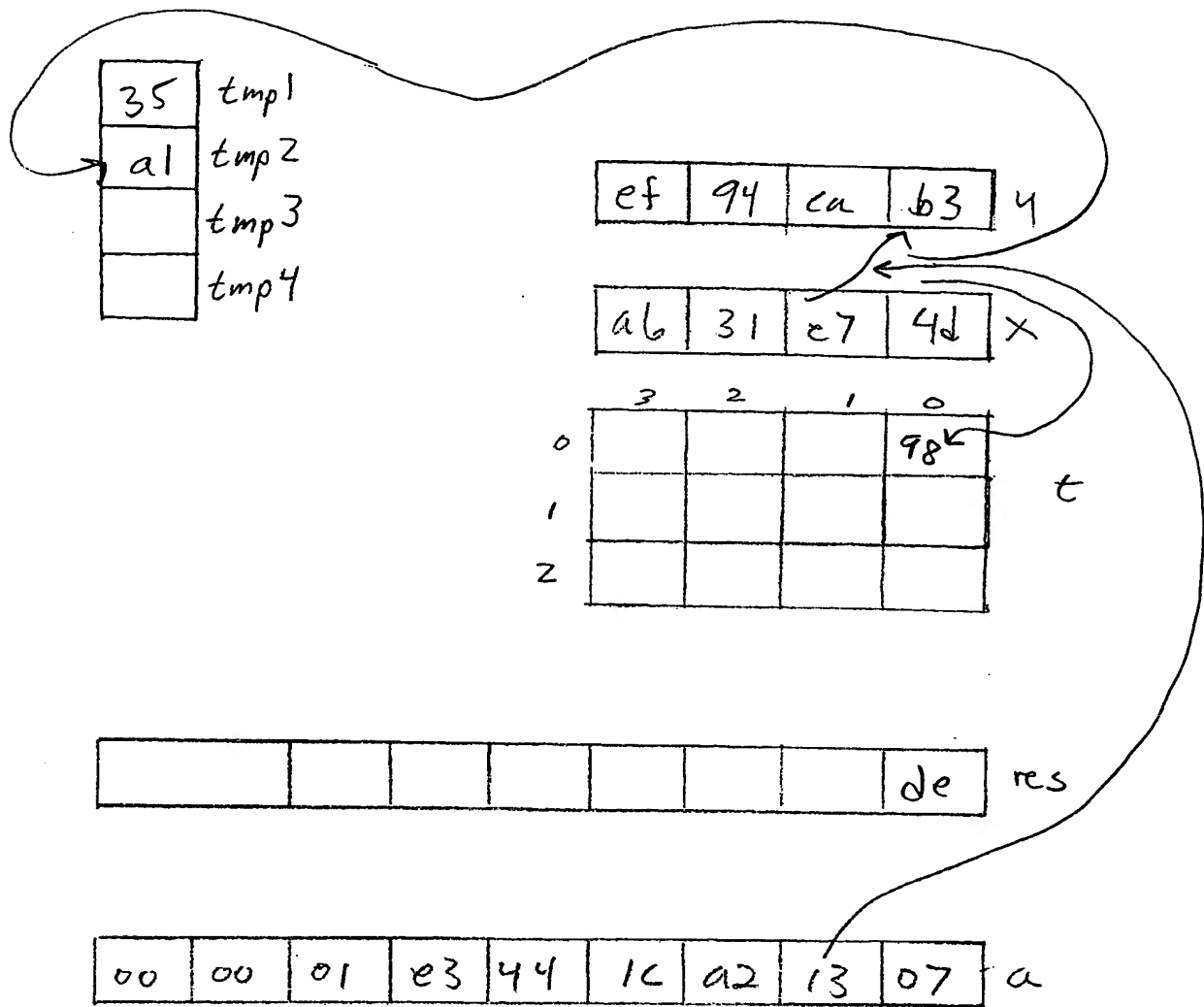


Figure 4C

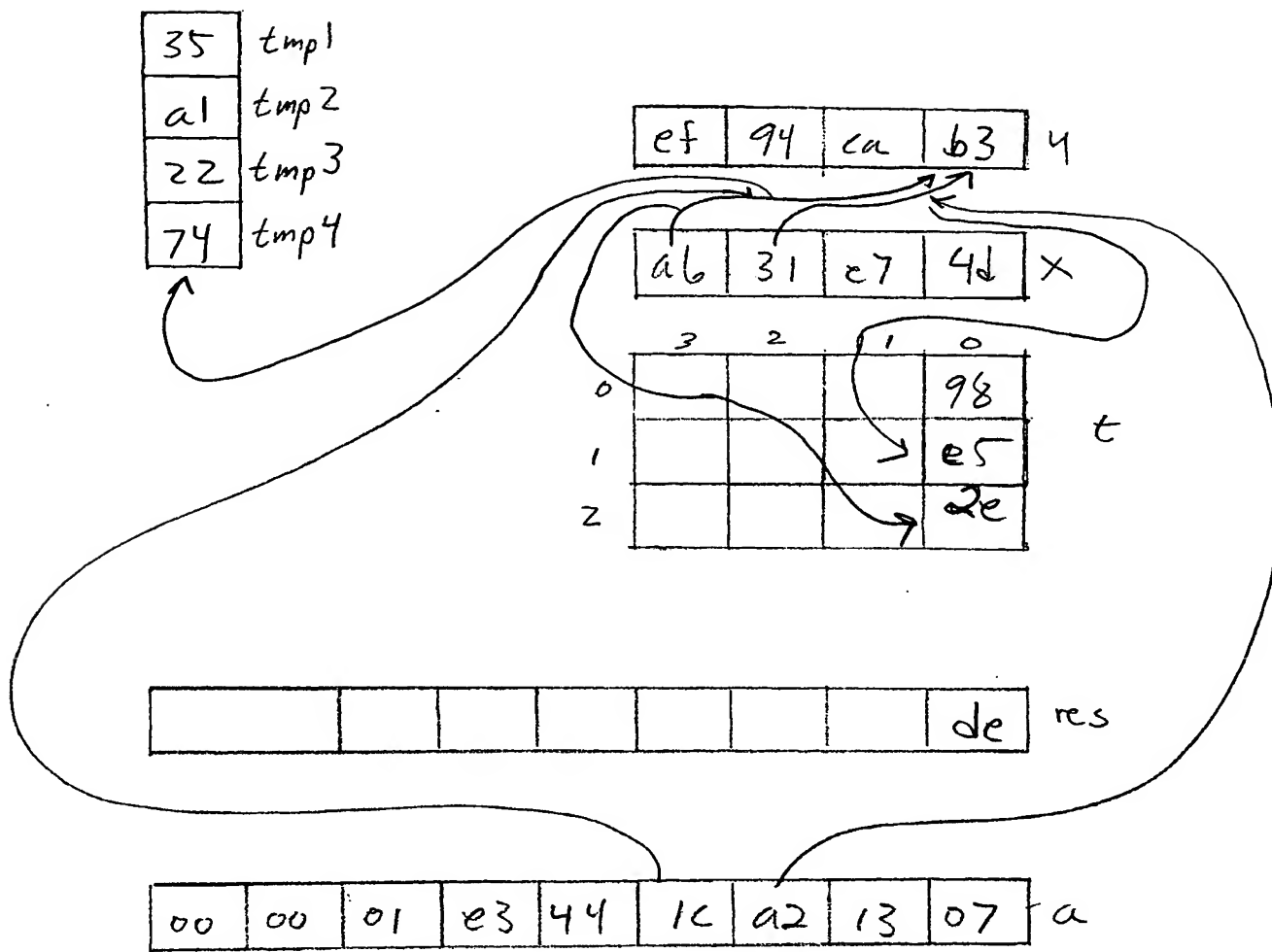


Figure 40

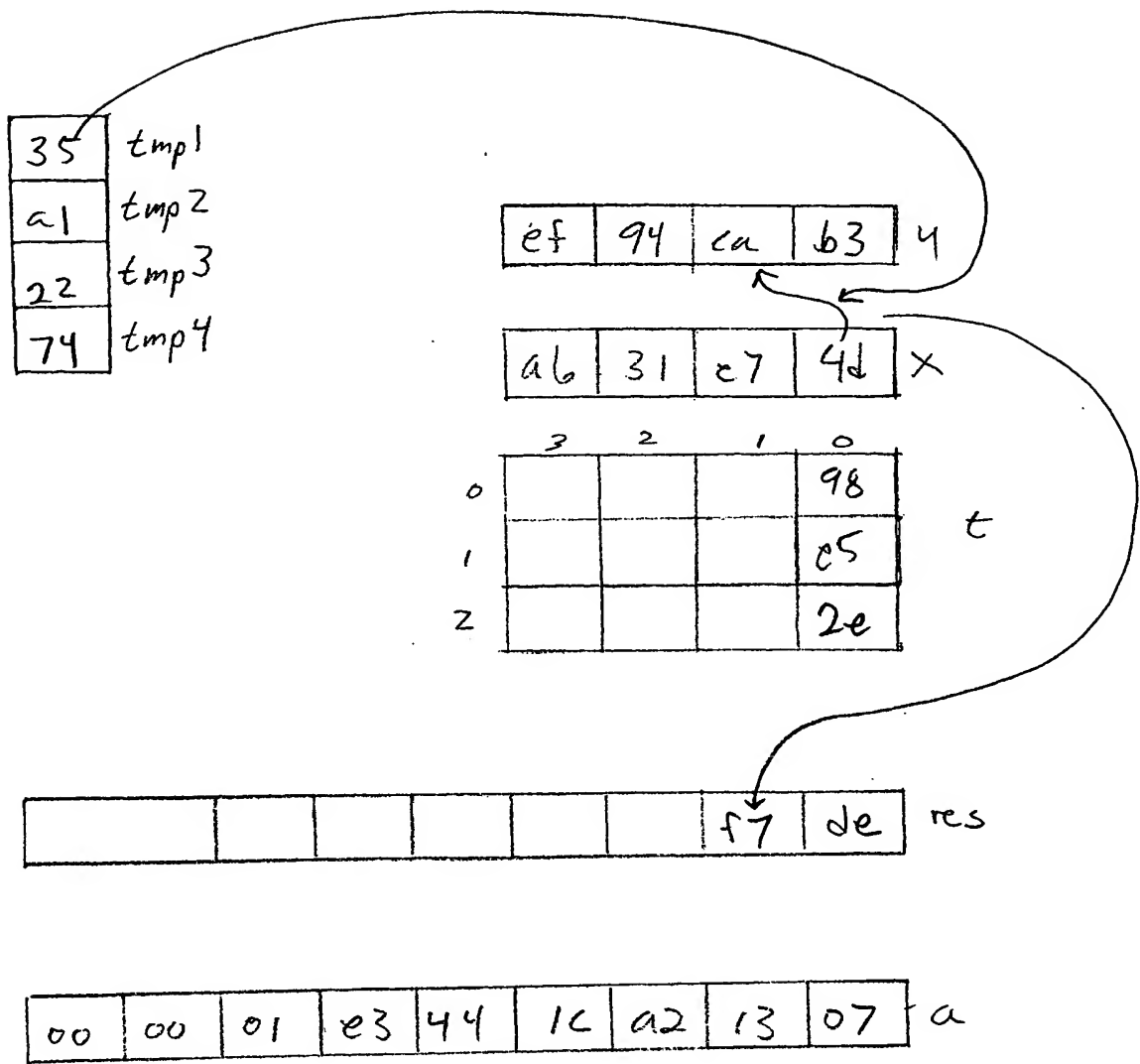


Figure 4E

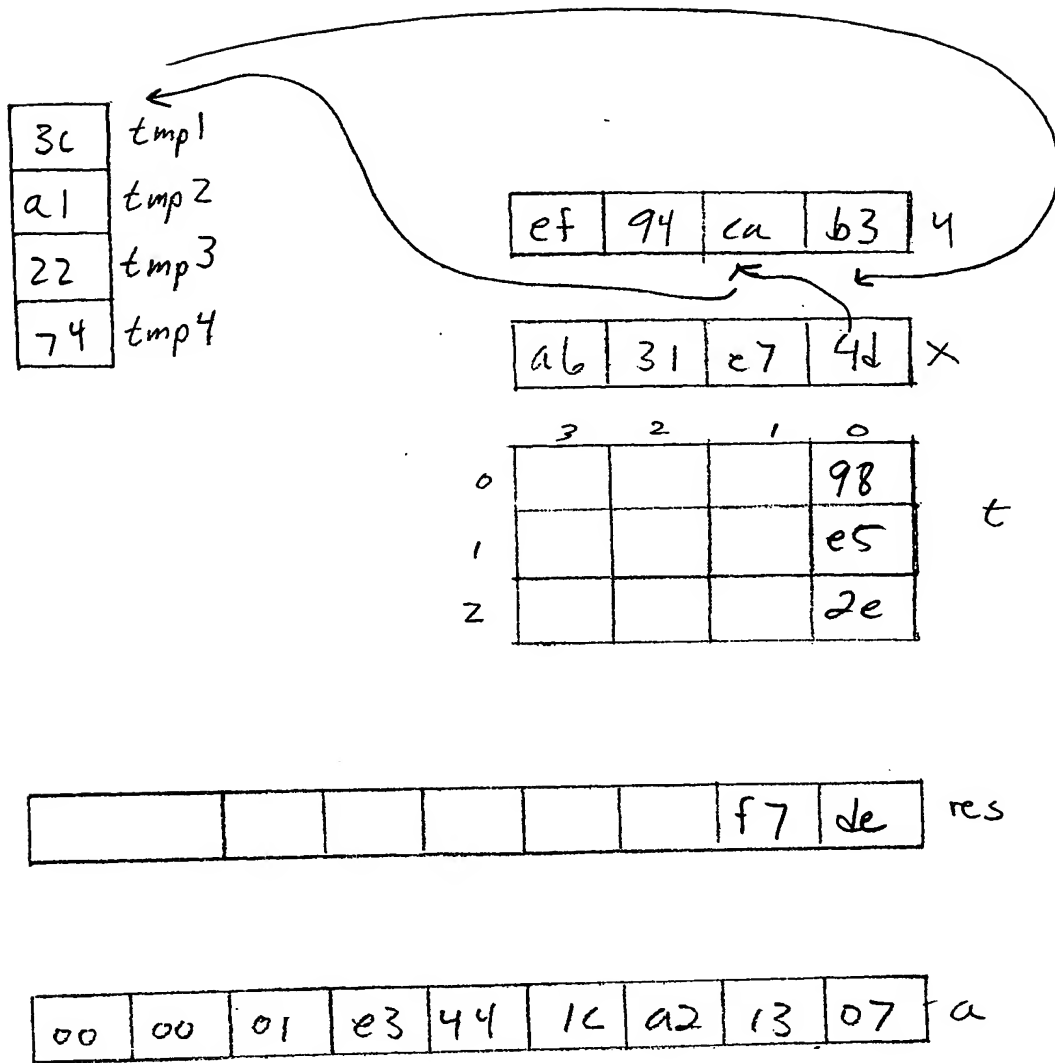


Figure 4F

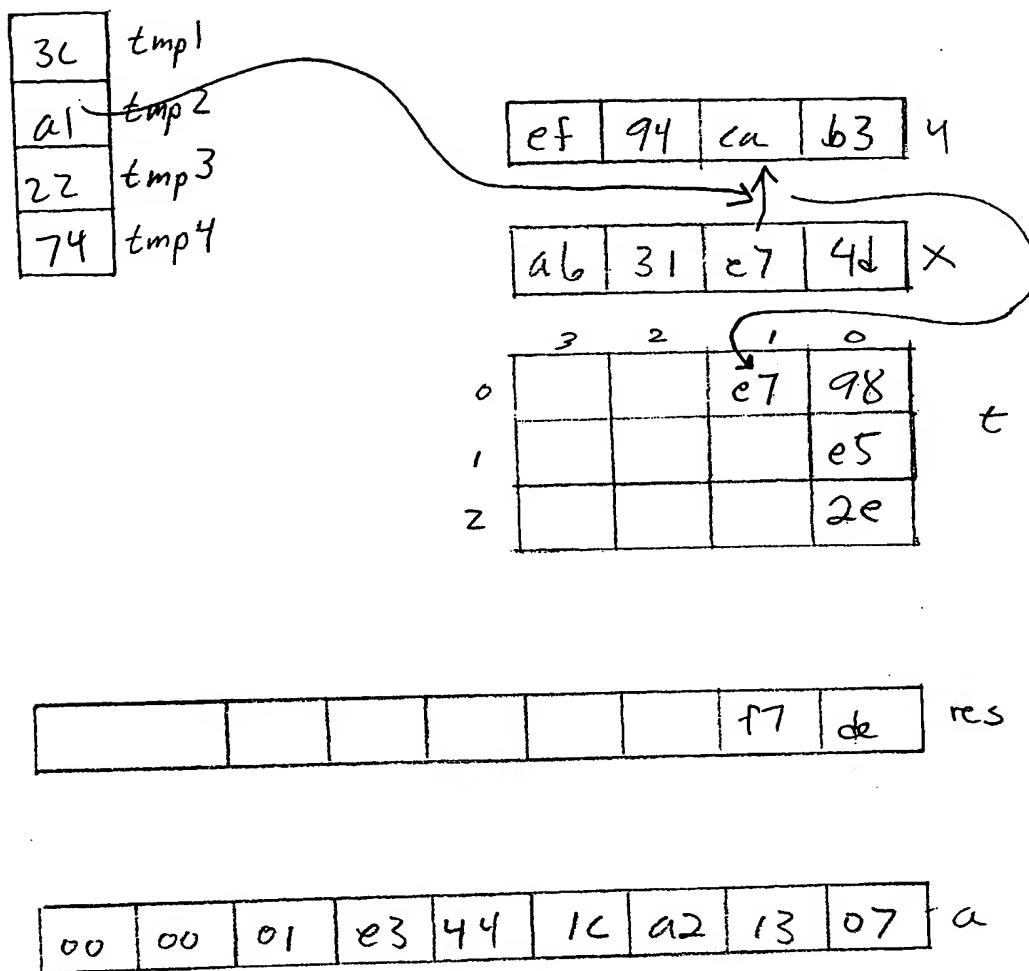


Figure 46

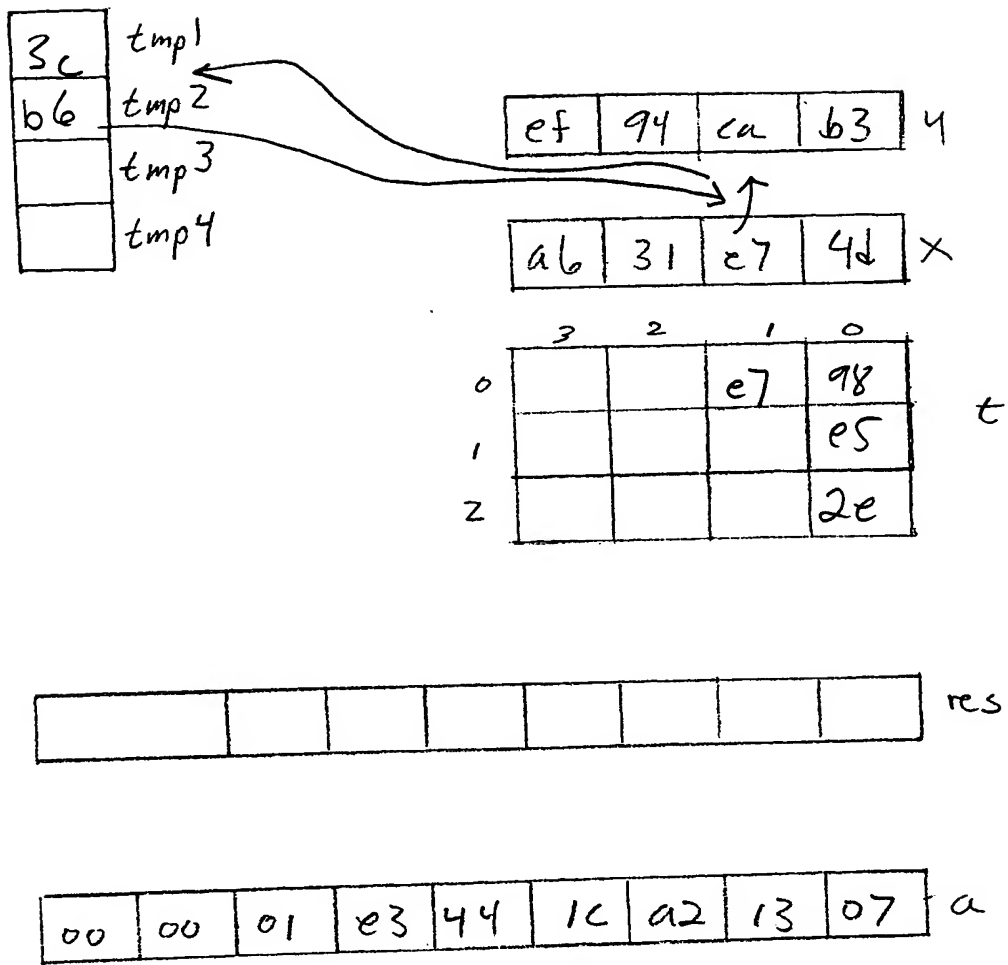


Figure 4H

3c	tmp1
b6	tmp2
26	tmp3
83	tmp4

ef	94	ca	b3	y
----	----	----	----	---

a6	31	c7	4d	x
----	----	----	----	---

	3	2	1	0	
0			e7	18	t
1			cc	c5	
2			70	2e	

						f7	de	res
--	--	--	--	--	--	----	----	-----

00	00	01	e3	44	1c	a2	13	07	a
----	----	----	----	----	----	----	----	----	---

Figure 4I

2c	tmp1
86	tmp2
1c	tmp3
60	tmp4

ef	94	ca	b3	y
----	----	----	----	---

a6	31	e7	4d	x
----	----	----	----	---

	3	2	1	0	
0		42	e7	98	t
1		7a	cc	e5	
2		7b	70	2e	

					c0	f7	de	res
--	--	--	--	--	----	----	----	-----

00	00	01	e3	44	1c	a2	13	07	a
----	----	----	----	----	----	----	----	----	---

Figure 4J

2c	tmp1
86	tmp2
1c	tmp3
60	tmp4

ef	94	ca	b3	y
----	----	----	----	---

a6	31	e7	4d	x
----	----	----	----	---

	3	2	1	0	
0	2f	42	e7	98	t
1	db	7a	cc	e5	
2	5a	7b	70	2e	

	9b	2d	d8	48	of	c0	f7	de	res
--	----	----	----	----	----	----	----	----	-----

00	00	01	e3	44	1c	a2	13	07	a
----	----	----	----	----	----	----	----	----	---

Figure 4K